

Espressif ESP32-S3-EYE

Espressif ESP32-S3-EYE Development Board User Manual

Model: ESP32-S3-EYE

1. INTRODUCTION

This manual provides comprehensive instructions for the Espressif ESP32-S3-EYE Development Board. It covers product overview, component identification, setup procedures, operational guidelines, maintenance tips, troubleshooting, and detailed specifications. Please read this manual thoroughly before using the device to ensure proper functionality and longevity.

2. PRODUCT OVERVIEW

The ESP32-S3-EYE is a compact AI development board designed for applications requiring image recognition and audio processing. It integrates the ESP32-S3 SoC with Espressif's AI development framework, ESP-WHO. Key features include a 2-Megapixel camera, an LCD display, and a microphone. The board is equipped with 8 MB Octal PSRAM and 8 MB flash memory, supporting Wi-Fi for image transmission and a Micro-USB port for debugging.

Key Features:

- Integrated 8 MB Flash and 8 MB PSRAM for ample storage and processing.
- Equipped with a 2-megapixel camera and a 1.3-inch LCD screen for visual applications.
- Supports high-performance image recognition and voice wake-up functionalities.
- Facilitates Wi-Fi based image transmission.
- Features a Micro-USB port for debugging and power supply.

3. COMPONENTS AND LAYOUT

The ESP32-S3-EYE board features several integrated components essential for its operation. Understanding their placement and function is crucial for development.





Figure 3.1: Front View of ESP32-S3-EYE Board. This image displays the front side of the development board, highlighting the integrated camera module at the top, control buttons (MENU, PLAY, UP, DOWN) on the sides, and the central LCD display. The board's model number, ESP32-S3-EYE_SUB_V1.1, is visible above the LCD.

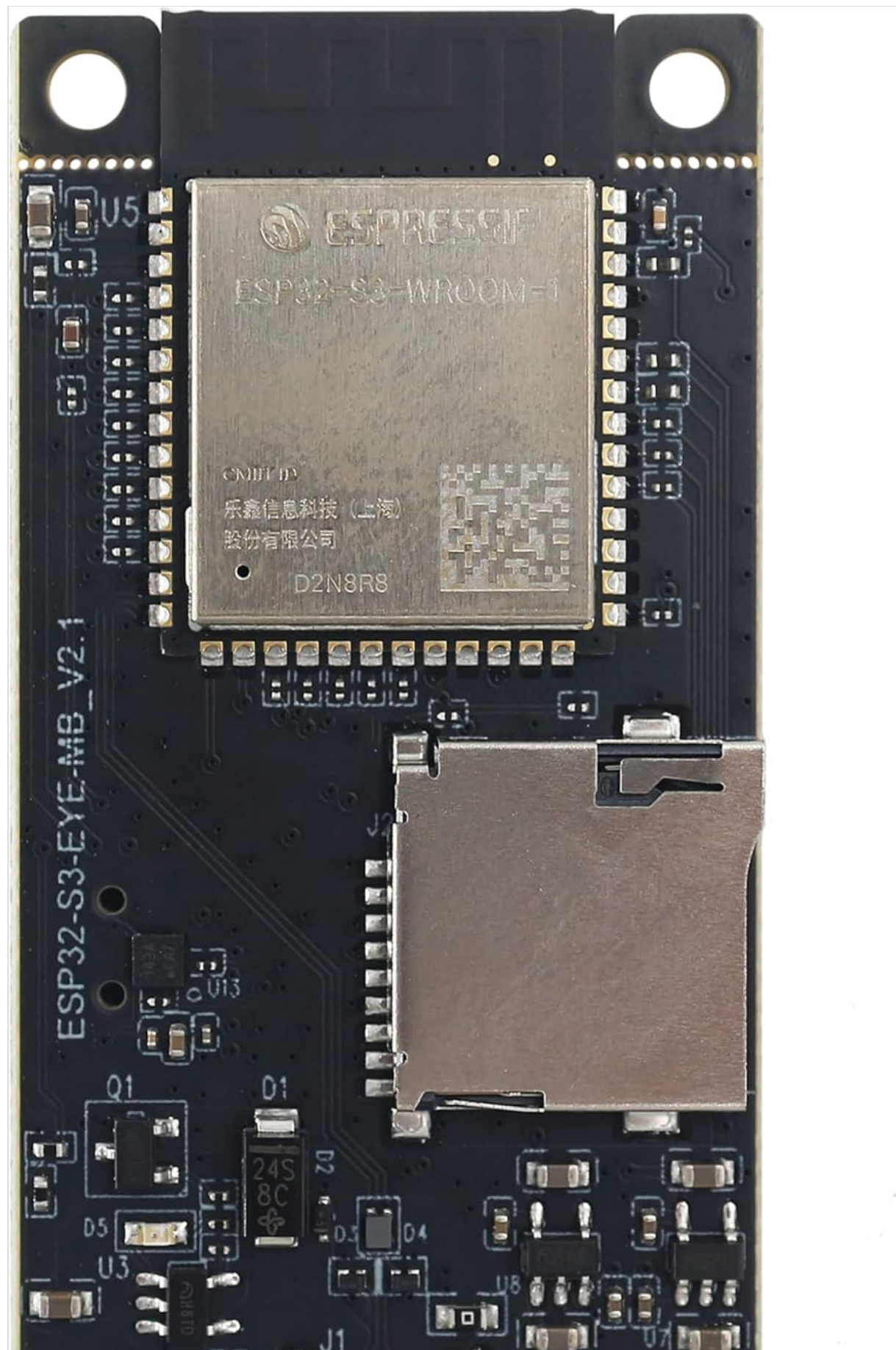




Figure 3.2: Back View of ESP32-S3-EYE Board. This image shows the reverse side of the development board. Prominently featured is the ESP32-S3-WROOM-1 module, which houses the main SoC. Below it, a MicroSD card slot is visible for expandable storage, and at the bottom, the Micro-USB port for power and data connection.



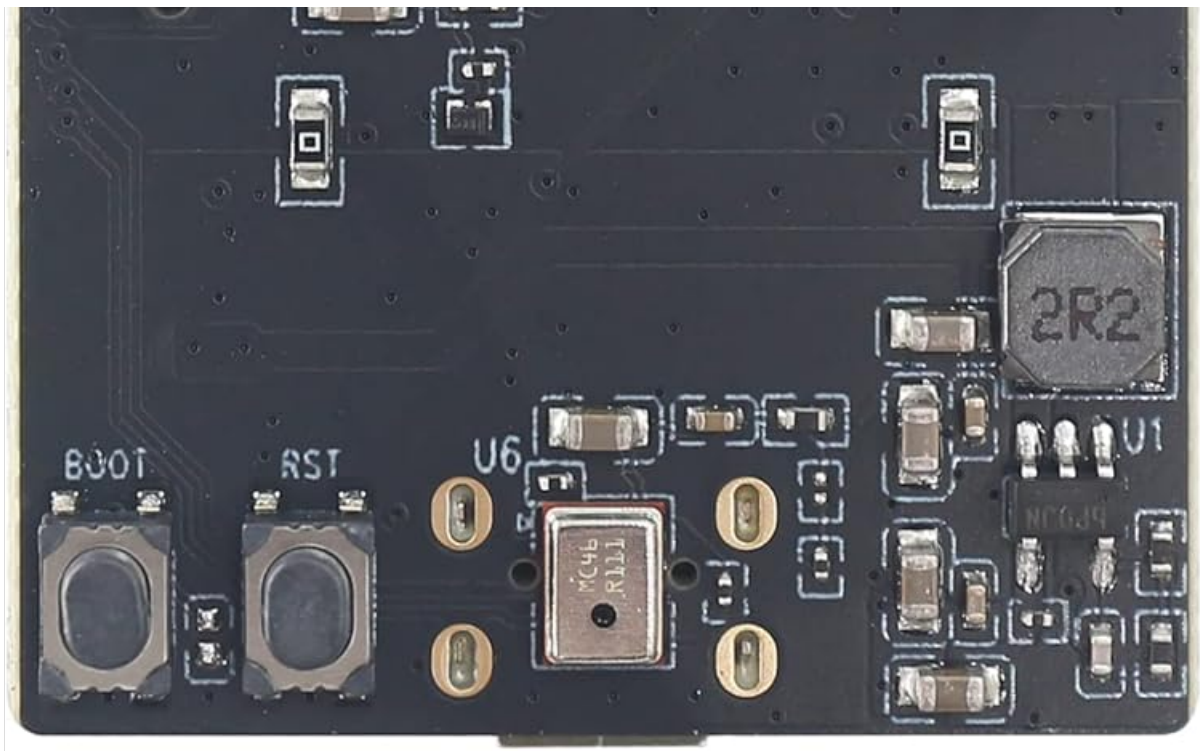


Figure 3.3: Detailed Front View. A closer look at the front of the board, emphasizing the camera module with its ribbon cable connection (RYS-2640-M7), the various buttons (MENU, PLAY, UP, DOWN), and the connector (J4) for the LCD display. Pin headers (J8, J9) are also visible, providing access to GPIOs.



Figure 3.4: LCD Display Module. This image focuses on the 1.3-inch LCD display module, labeled ESP32-S3-EYE_SUB_V1.1. It shows the screen area and the flexible flat cable (FFC) connector at the bottom, which interfaces with the main board.

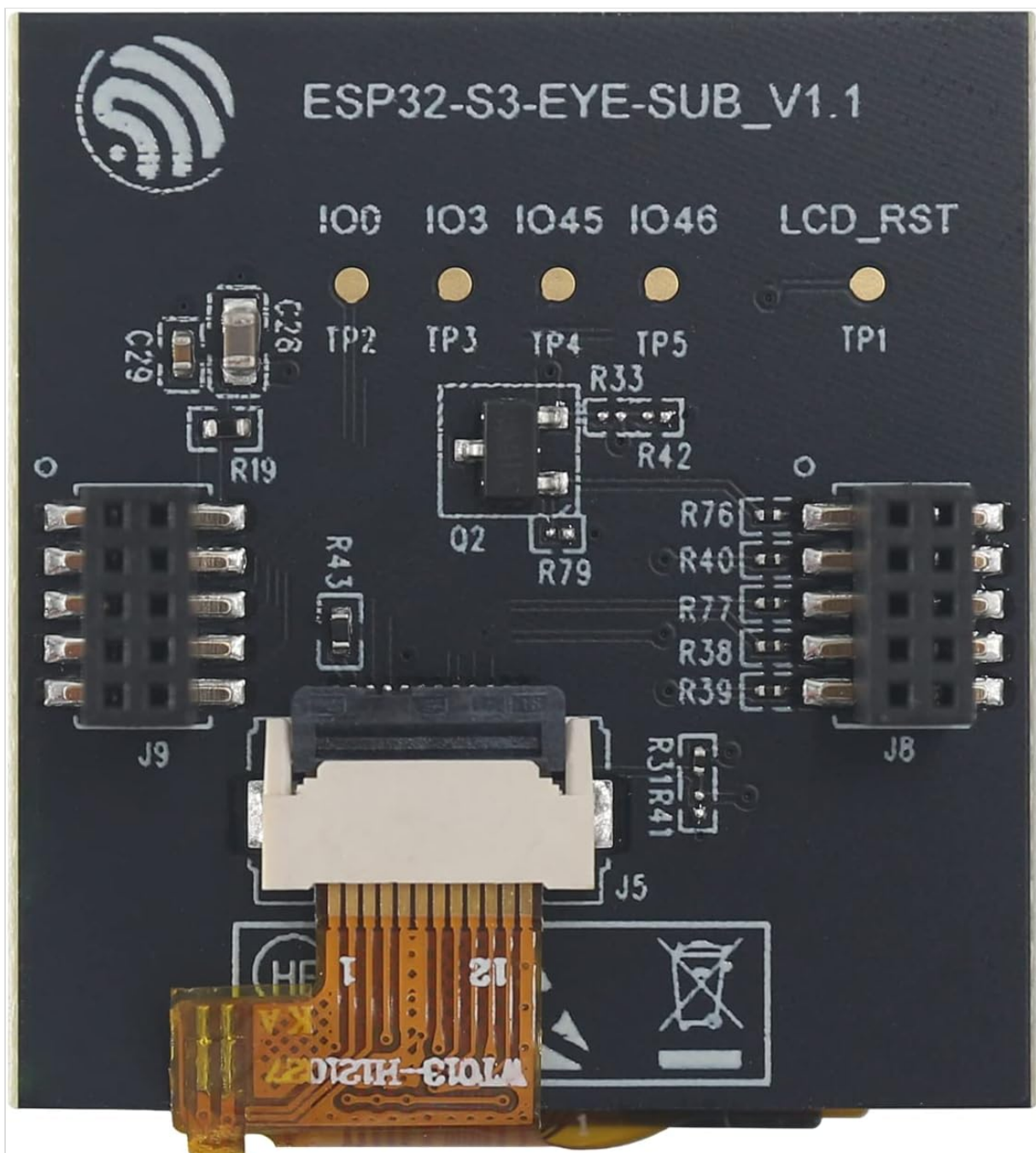


Figure 3.5: Back View of LCD Sub-Board. This image presents the rear side of the LCD sub-board, revealing its circuitry and connection points. Pin headers (J8, J9) are visible, along with test points (TP1-TP5) and the FFC connector (J5) for the display's ribbon cable. The board is labeled ESP32-S3-EYE_SUB_V1.1.

4. SETUP INSTRUCTIONS

To begin using your ESP32-S3-EYE Development Board, follow these setup steps:

1. **Connect Power and Data:** Connect the ESP32-S3-EYE board to your computer using a Micro-USB cable. This connection provides power to the board and enables data communication for programming and debugging.
2. **Install Development Environment:** For programming and utilizing the board's full capabilities, you will need to set up a development environment. Espressif recommends using the ESP-IDF (Espressif IoT Development Framework). Detailed instructions for installing ESP-IDF can be found in the official Espressif documentation.
3. **Obtain Firmware/Examples:** Download the necessary firmware or example projects from the official Espressif GitHub repository for the ESP32-S3-EYE. A good starting point is the [ESP32-S3-EYE](#)

4. **Upload Firmware:** Use the ESP-IDF tools or a compatible IDE (e.g., Arduino IDE with ESP32 board support) to compile and upload your desired application or example firmware to the board via the Micro-USB connection.
5. **Initial Power-On:** Once firmware is uploaded, the board will typically boot automatically. Observe the LCD display for any output or status indicators.

5. OPERATING INSTRUCTIONS

Operating the ESP32-S3-EYE involves interacting with its camera, LCD, microphone, and Wi-Fi capabilities through programmed applications.

- **Camera Operation:** The 2-megapixel camera can be controlled via software to capture images or video streams. Refer to the ESP-WHO framework documentation for API calls and examples related to camera initialization, capture, and processing.
- **LCD Display:** The 1.3-inch LCD can be used to display captured images, user interfaces, or debugging information. Software libraries within ESP-IDF provide functions for drawing graphics and text on the display.
- **Microphone and Audio Processing:** The integrated microphone enables audio input for voice wake-up or other audio processing applications. Consult the ESP-WHO documentation for details on microphone access and audio data handling.
- **Wi-Fi Connectivity:** The board supports Wi-Fi for network communication, including image transmission. Configure Wi-Fi credentials within your application code to connect to a local network. Once connected, data can be sent and received over Wi-Fi.
- **Button Interaction:** The MENU, PLAY, UP, and DOWN buttons can be programmed to trigger specific actions within your application, such as navigating menus, starting/stopping processes, or adjusting settings.

6. MAINTENANCE

Proper maintenance ensures the longevity and reliable operation of your ESP32-S3-EYE Development Board.

- **Handling:** Always handle the board by its edges to avoid touching sensitive components, which can be damaged by static electricity or oils from your skin.
- **Storage:** Store the board in a dry, anti-static environment, away from direct sunlight and extreme temperatures.
- **Cleaning:** If necessary, gently clean the board with a soft, dry, anti-static brush or a lint-free cloth. Avoid using liquids or abrasive cleaners.
- **Power Supply:** Use only appropriate power sources (e.g., a standard USB port or a regulated 5V power supply) to prevent damage.
- **Firmware Updates:** Regularly check for and apply firmware updates from Espressif to benefit from bug fixes, performance improvements, and new features.

7. TROUBLESHOOTING

If you encounter issues with your ESP32-S3-EYE board, consider the following troubleshooting steps:

• **Board Not Powering On:**

- Ensure the Micro-USB cable is securely connected to both the board and a working USB port on your computer or power adapter.
- Try a different Micro-USB cable or USB port.

• **Firmware Upload Failure:**

- Verify that the correct COM port (or equivalent for your OS) is selected in your development environment.
- Ensure all necessary drivers for the USB-to-serial converter are installed.
- Check your development environment setup (e.g., ESP-IDF installation, toolchain paths). Refer to the official ESP-IDF documentation for common setup issues.
- Ensure the board is in bootloader mode if required by your flashing tool (often by holding the BOOT button while connecting USB or resetting).

• **No Display Output on LCD:**

- Confirm that the LCD ribbon cable is properly seated in its connector (J4).
- Verify that your firmware includes the correct initialization code for the LCD display.
- Check for any error messages in the serial monitor during boot-up.

• **Camera Not Functioning:**

- Ensure the camera module's ribbon cable is correctly connected.
- Check your application code for proper camera initialization and configuration.
- Verify that the camera module itself is not physically damaged.

• **Wi-Fi Connection Issues:**

- Double-check the Wi-Fi SSID and password in your code for accuracy.
- Ensure the Wi-Fi network is within range and operating on a compatible frequency (2.4 GHz).
- Verify that your router is not blocking new connections or has MAC address filtering enabled.

8. SPECIFICATIONS

Feature	Detail
Model Name	ESP32-S3-EYE
Brand	Espressif
SoC	ESP32-S3
Flash Memory	8 MB
PSRAM	8 MB Octal PSRAM
Camera	2-Megapixel
Display	1.3-inch LCD
Audio Input	Integrated Microphone

Feature	Detail
Wireless Connectivity	Wi-Fi (802.11b, Single-Band)
Interface	Micro-USB for debugging and power
Dimensions	Approximately 3.35 x 2.17 x 1.34 inches
Item Weight	Approximately 1.13 ounces
Operating System Compatibility	ZyNOS (as listed in specifications, typically refers to network OS, but for dev boards, it's the underlying OS for the Wi-Fi module, or a generic placeholder. For development, it's usually OS-agnostic with toolchains.)

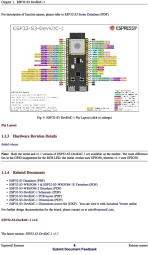
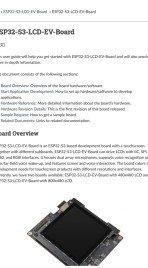
9. WARRANTY AND SUPPORT

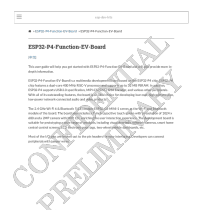
Espressif provides support for its development boards. For technical assistance, documentation, and community forums, please refer to the official Espressif website and GitHub repositories. For business or specific technical inquiries, you may contact Espressif directly:

- **Email:** sales@espressif.com

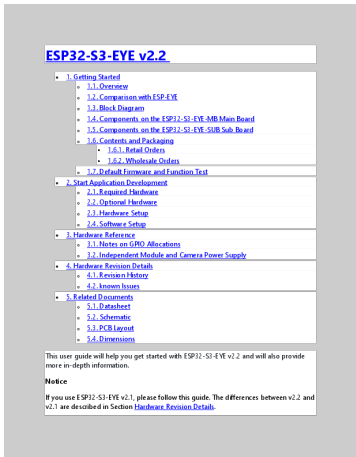
Specific warranty details are typically provided at the point of purchase or within the product packaging. Please retain your proof of purchase for any warranty claims.

Related Documents - ESP32-S3-EYE

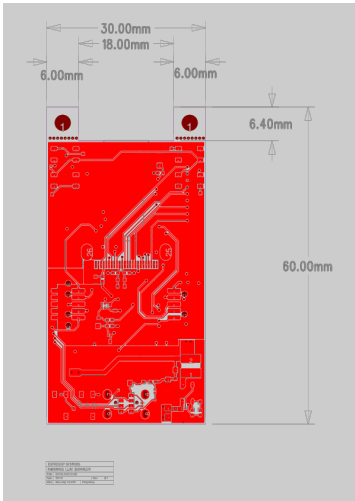
	ESP32-S3-DevKitC-1 Development Board Overview and Specifications This document provides an overview of the ESP32-S3-DevKitC-1 development board from Espressif, detailing its hardware revisions, pin layout, specifications, and related documentation.
	ESP32-S3-LCD-EV-Board: Development Board User Guide Comprehensive user guide for the Espressif ESP32-S3-LCD-EV-Board, detailing its features, hardware components, LCD subboards, software support, and development setup.

	ESP32-LyraTD-MSC User Guide: DuerOS & AVS Configuration User guide for Espressif's ESP32-LyraTD-MSC audio development board. Covers hardware, setup for DuerOS and AVS, voice recognition, and schematics.
	ESP32-S3-BOX-3 AIoT Development Kit User Guide A comprehensive user guide for the ESP32-S3-BOX-3 AIoT Development Kit, detailing its features, hardware components, setup, and usage for various AI and IoT applications.
	ESP32-P4-Function-EV-Board User Guide and Technical Overview Comprehensive user guide for the Espressif ESP32-P4-Function-EV-Board, detailing its features, components, hardware setup, and software development. Includes technical specifications and component descriptions.
	ESP32-P4-Function-EV-Board User Guide and Technical Reference Comprehensive documentation for the Espressif ESP32-P4-Function-EV-Board, detailing its features, hardware specifications, setup instructions, and related resources for developers.

Documents - Espressif – ESP32-S3-EYE



[pdf] Quick Start Guide Specifications Datasheet Dimension Guide Guide Diagram
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ESP32-S3-EYE v2.2 1. Getting Started o 1.1. Overview o 1.2. Comparison with ESP-EYE o 1.3. Block Diagram o 1.4. Components on the **ESP32-S3-EYE-MB** Main Board o 1.5. Components on the **ESP32-S3-EYE-SUB** Sub Board o 1.6. Contents and Packaging 1.6.1. Retail Orders 1.6.2. Wholesale Orders o 1.7. Default...
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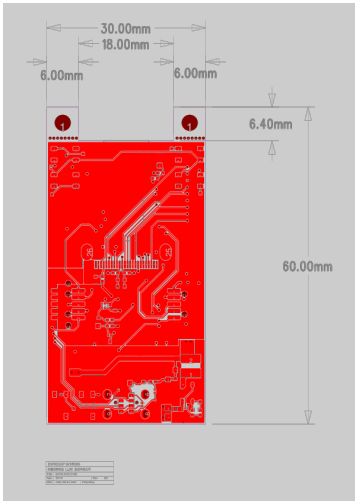


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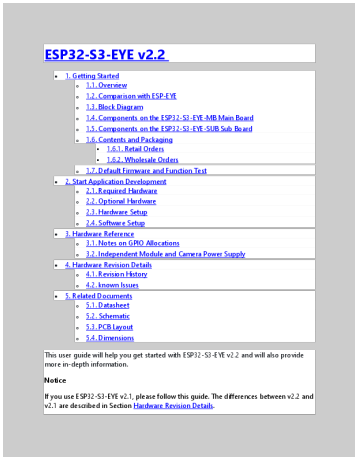
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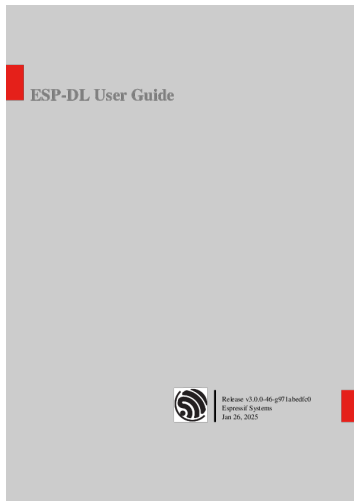
[pdf] Quick Start Guide Datasheet Dimension Guide Guide Diagram

Ken Kim Espressif ESP32 S3 EYE Entwicklungsboard Conrad Electronic Schweiz datenblatt 2992165 espressif esp32 s3 eye entwicklungsboard asset conrad media10 add 160267 c1 en 002992165DS00 Tehnični podatki razvojna plošča ESPRESSIF v2 2 MegaShop spletna trgovina Megashop si 2024 08 04 — The is a small sized AI development board produced by It based on the SoC and ESP WHO s Carte de développement Suisse Fejlesztői panel vásárlása Buy PCB design tehnicni plosca fiche technique carte developpement adatlap fejlesztői datasheet pcb ploča Elektroleum framework ESPRESSIFESP32 pločaESP32 ManoManoESP32 2ESP32 2Espressif ESP32 Elektroleum11 3 V to 8 LDO Power regulator that converts supply into output for camera 12 USB Port A Micro port used 5 power The framework2024 developmentEspressif SuisseEspressif ElectronicBuy ElectronicEspressif Schweiztehnici espressifdatasheet espressif06797cb672fb1ae2a39f383f08bd522d41d99f30datasheet espressiftehnici espressiffiche espressifadatlap espressifdatenblatt espressifasset espressifcdn manomano pim dam img 350 101976127 06797cb672fb1ae2a39f383f08bd522d41d99f30asset entwicklungsboardasset |||

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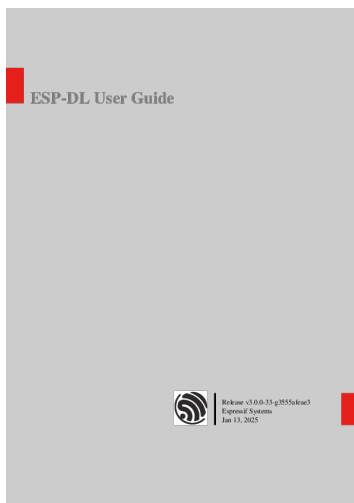




[ESP-DL User Guide: Develop AI Applications with Espressif Systems](#)

Comprehensive user guide for ESP-DL, Espressif's lightweight neural network inference framework. Learn to develop AI applications on ESP series chips, covering model quantization with ESP-PPQ, loading models, and API references.

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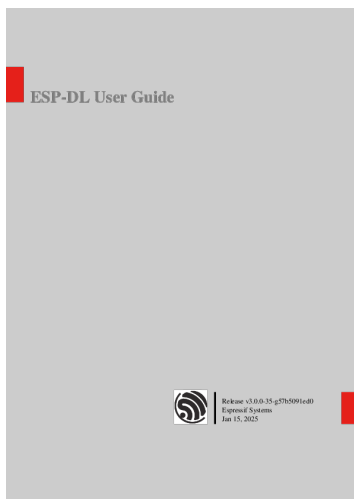
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ESP-DL User Guide Release v3.0.0-33-g3555afeae3 Espressif Systems Jan 13, 2025

Table of contents ... tting Started 2.1 Hardware Requirements An ESP32-S3 or ESP32-P4 development board. Recommendation: **ESP32-S3-EYE** or ESP32-P4-FunctionEV-Board PC Linux Note: Some development boards currently have t...

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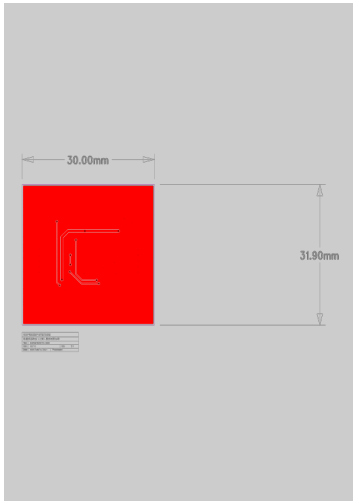


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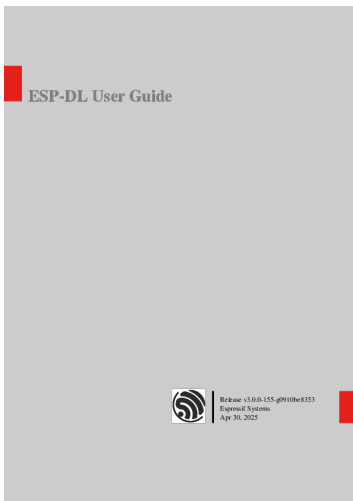


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r38 r79 r77 c29 c28 j9 j8 r76 r19 q2 j5 30 00mm 31 90mm date task title |||

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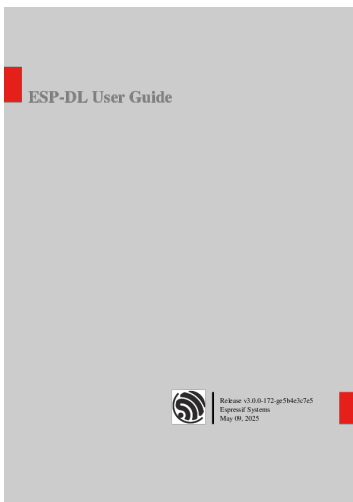


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ESP32 S3 BOX 3 AIoT Development Kit User Guide NET The comes with pre built firmware supporting offline voice wake up and speech recognition in both Chinese English ESP mobile APP espressif
esp32s3box3b apr22 xonlink xonstorage blob core windows net |||
ESP32-S3-BOX-3 AIoT Development Kit User Guide Promotional Video GitHub ESP-BOX SDK Important Note ... BX00083 ABX00087 ABX00092
BCM94343WWCD1_EVB XK3-C-A2-UT-U XKC-V1TU ESP32-PICO-KIT-1 ESP32-S3-BOX-3B **ESP32-S3-EYE** ESP32-S3-LCD-EV-Board EV-WT02C40C-eng INP3010 INP3011 ISP3080UX-AN ISP3080-UX-DK ISP308...
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ESPRESSIF

文件编号

Document No.

ESP-07-2-007-03

文件名称

Document Name

产品/工艺变更通知

Product/Process Change Notice (PCN)

文件版本

Document Version

1.4

保存期限

Retention Period

9 年

5 years

引入 G202048592 作为 ESP32-S3 系列开发板备选 1 MB Flash 物料

Introduction of G202048592 as Alternative 1 MB Flash Source for ESP32-S3 Series of Modules

PCN 编号	PCN20230102	发布日期	2023/1/13
PCN No.	PCN20230102	Issue Date of PCN	2023/1/13
变更日期	2023/02/01	首次变更日期	2023/02/13
Proposed Date of Change	2023/02/01	Proposed Date of First Shipment After Change	2023/02/13
PCN 范围 / PCN Category	影响 / 受影响客户 / 客户批准所需 ☐ 影响 / 受影响客户 / 客户批准所需		
1. 受影响产品 / Affected Product Name			
1) 开发板产品			
Product Name		Product MPN	
ESP32-S3-WROOM-1		ESP32-S3-WROOM-1-N8	
ESP32-S3-WROOM-1		ESP32-S3-WROOM-1-N8R2	
ESP32-S3-WROOM-1		ESP32-S3-WROOM-1-N8R2	
ESP32-S3-WROOM-1U		ESP32-S3-WROOM-1U-N8	
ESP32-S3-WROOM-1U		ESP32-S3-WROOM-1U-N8R2	
ESP32-S3-WROOM-1U		ESP32-S3-WROOM-1U-N8R2	
2) 开发板产品		Product MPN	
ESP32-S3-DevKitC-1		ESP32-S3-DevKitC-1-N8	
ESP32-S3-DevKitC-1		ESP32-S3-DevKitC-1-N8R2	
ESP32-S3-DevKitC-1		ESP32-S3-DevKitC-1-N8R2	
ESP32-S3-DevKitC-1U		ESP32-S3-DevKitC-1U-N8	
ESP32-S3-DevKitC-1U		ESP32-S3-DevKitC-1U-N8R2	
ESP32-S3-EYE		ESP32-S3-EYE	
ESP32-S3-EYE		ESP32-S3-EYE	
2. 受影响产品 / Reason for Change			

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ESPRESSIF PCN Pan Zhengyan PCN20230102 media digikey PCNs Espressif |||
Document No. Document Version ESP-07-2-007-03 1.4 Document Name Retention Period / Product/Pr ... 1 ESP32-S3-DevKitC-1 ESP32-S3-DevKitC-1 ESP32-S3-DevKitC-1U ESP32-S3-DevKitC-1U ESP32-S3-DevKitC-1U **ESP32-S3-EYE** 2. / Reason for Change Product MPN ESP32-S3-DevKitC-1-N8 ESP32-S3-DevKitC-1-N8R2 ESP32...
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ESPRESSIF

文件编号

Document No.

ESP-07-2-007-03

文件名称

Document Name

产品工艺变更通知

Product/Process Change Notice (PCN)

文件版本

Document Version

1.4

维护周期

Retention Period

5 年

5 years

ESP32-S3 系列产品芯片版本升级

Upgrade Chip Revision of ESP32-S3 Series Products

PCN 编号

PCN No.

PCN20220602

发布日期

Issue Date of PCN

2022/08/09

变更日期

Proposed Date of Change

2022/08/12

预计变更发布产品发布日期

Proposed Date of First Shipment After Change

2022/11/09

PCN 类别/PCN Category

☐ 客户需要批准/ Customer Approval Required
 ☐ 客户通知/ Customer Notification

1. 受影响产品/Affected Products

1) 芯片产品/ Chip Products

ESP32-S3, ESP32-S3PM, ESP32-S3R2, ESP32-S3R8, ESP32-S3RV, ESP32-S3PHR2

2) 模组产品/ Module Products

Product Name	MPN
ESP32-S3-WROOM-1	ESP32-S3-WROOM-1-N4
	ESP32-S3-WROOM-1-N8
	ESP32-S3-WROOM-1-N16
	ESP32-S3-WROOM-1-N4H
	ESP32-S3-WROOM-1-N4RH
	ESP32-S3-WROOM-1-N4RH8
	ESP32-S3-WROOM-1-N4RH2
	ESP32-S3-WROOM-1-N4RH2
	ESP32-S3-WROOM-1-N4RH2
	ESP32-S3-WROOM-1U-N4
ESP32-S3-WROOM-1U	ESP32-S3-WROOM-1U-N4
	ESP32-S3-WROOM-1U-N16
	ESP32-S3-WROOM-1U-N4H
	ESP32-S3-WROOM-1U-N4RH8
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Period / Product/Pr ... evKitC-1 ESP32-S3-DevKitM-1 ESP32-S3-USB-OTG ESP32-
S3-Korvo-1 ESP32-S3-Korvo-2 ESP32-S3-Korvo-2-LCD **ESP32-S3-EYE** ESP32-S3-
BOX ESP32-S3-BOX-Lite MPN ESP32-S3-DevKitC-1-N8 ESP32-S3-DevKitC-1-N16
ESP32-...

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contents Table of conten ... Getting Started 2.1 Hardware Requirements An ESP32-
S3 or ESP32-P4 development board. Recommended: **ESP32-S3-EYE** or ESP32-P4-
FunctionEV-Board PC Linux Note: Some boards currently use Type C connect...
lang:en score:27 filesize: 489.16 K page_count: 89 document date: 2025-06-13



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文件编号
Document No.

ESP-07-2-007-03

文件名称
Document Name

产品工艺变更通知
Product/Process Change Notice (PCN)

文件版本
Document Version

1.4

维护周期
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5 年
5 years

ESP32-S3 系列产品芯片版本升级
Upgrade Chip Revision of ESP32-S3 Series Products

PCN 编号 PCN No.	PCN20220602	发布日期 Issue Date of PCN	2022/08/11
变更日期 Proposed Date of Change	2022/08/20	预计变更发布产品发布日期 Proposed Date of First Shipment After Change	2022/11/11
PCN 类别/PCN Category	☐ 客户需要批准/ Customer Approval Required ☐ 客户通知/ Customer Notification		
1. 受影响产品/Affected Products			
1) 芯片产品/ Chip Products			
ESP32-S3, ESP32-S3PM, ESP32-S3R2, ESP32-S3R8, ESP32-S3RV, ESP32-S3PHR2			
2) 模组产品/ Module Products			
Product Name	MPN		
ESP32-S3-WROOM-1	ESP32-S3-WROOM-1-N4		
	ESP32-S3-WROOM-1-N8		
	ESP32-S3-WROOM-1-N16		
	ESP32-S3-WROOM-1-N4H		
	ESP32-S3-WROOM-1-N4RH		
	ESP32-S3-WROOM-1-N4RH8		
	ESP32-S3-WROOM-1-N4RH2		
	ESP32-S3-WROOM-1-N4RH2		
	ESP32-S3-WROOM-1U-N4		
	ESP32-S3-WROOM-1U-N4H		
ESP32-S3-WROOM-1U	ESP32-S3-WROOM-1U-N16		
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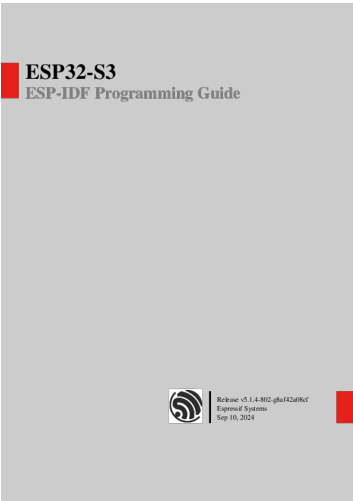
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S3-Korvo-1 ESP32-S3-Korvo-2 ESP32-S3-Korvo-2-LCD **ESP32-S3-EYE** ESP32-S3-
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Required pull-ups are provided on GPIOs 33-38. **ESP32-S3-EYE** The board is limited to 1-line SD mode. Required pull-ups are provided on GPIOs 38-40...

lang:en score:27 filesize: 24.65 M page_count: 2905 document date: 2024-09-10



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产品/工艺变更通知

Product/Process Change Notice (PCN)

5 年

5 years

ESP32-S3 系列产品的芯片版本升级

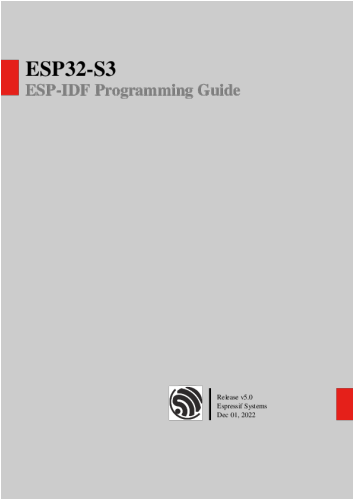
Upgrade Chip Revision of ESP32-S3 Series Products

PCN No.	PCN02020602	发布日期	Issue Date of PCN
变更日期	2022/07/10	首次变更日期	2022/07/06
Proposed Date of Change		Proposed Date of First Shipment After Change	2022/10/06
PCN 类别	☐ 客户需要通知 Customer Approval Required ☐ 客户不需要通知 Customer Notification		
PCN 类别	PCN Category		
1. 受影响产品 (Affected Products) 1) 芯片/模组 (Chip Products) ESP32-S3, ESP32-S3P4R, ESP32-S3R2, ESP32-S3R8, ESP32-S3RV, ESP32-S3P4R2 2) 模组/产品 (Module Products)			
Product Name	MPN		
ESP32-S3-WROOM-1	ESP32-S3-WROOM-1-1A4		
	ESP32-S3-WROOM-1-1A6		
	ESP32-S3-WROOM-1-1A16		
	ESP32-S3-WROOM-1-1A4		
	ESP32-S3-WROOM-1-1A8R8		
	ESP32-S3-WROOM-1-1A8R8		
	ESP32-S3-WROOM-1-1A8R2		
	ESP32-S3-WROOM-1-1A8R2		
	ESP32-S3-WROOM-1U-1A4		
	ESP32-S3-WROOM-1U-1A8		
ESP32-S3-WROOM-1U	ESP32-S3-WROOM-1U-1A16		
	ESP32-S3-WROOM-1U-1A4		
	ESP32-S3-WROOM-1U-1A8R8		
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lang:en score:27 filesize: 1.02 M page_count: 6 document date: 2022-07-06



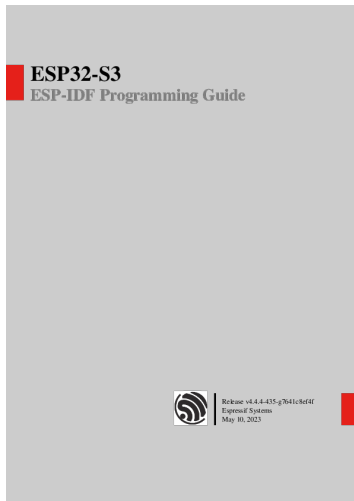
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Required pull-ups are provided on GPIOs 33-38. **ESP32-S3-EYE** The board is limited to 1-line SD mode. Required pull-ups are provided on GPIOs 38-40...

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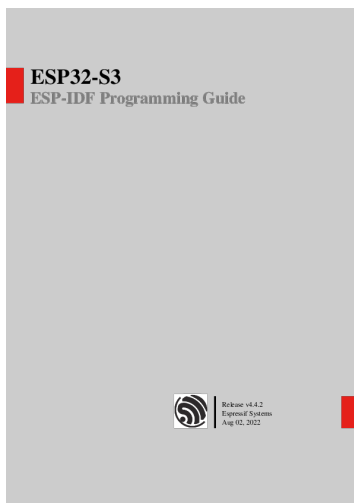
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Required pull-ups are provided on GPIOs 33-38. **ESP32-S3-EYE** The board is limited to 1-line SD mode. Required pull-ups are provided on GPIOs 38-40...

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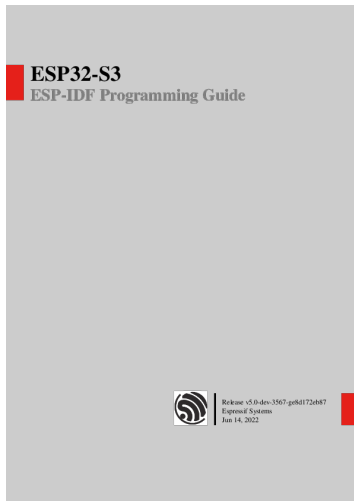
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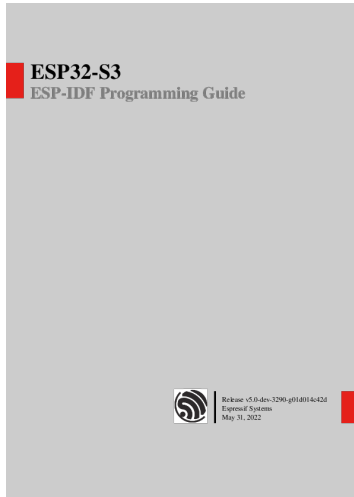
lang:en **score:27** filesize: 19.84 M page_count: 2458 document date: 2022-08-02



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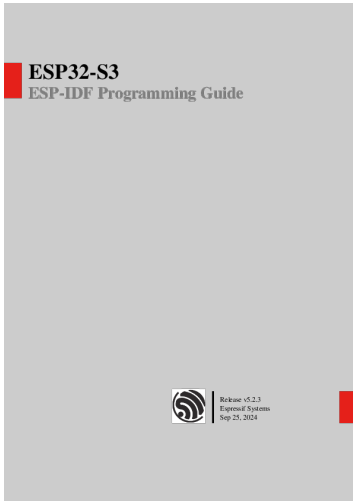
ESP32-S3 ESP-IDF Programming Guide Release v5.0-dev-3567-ge8d172eb87 Espressif Systems Jun 14, 2022 ... be used in 1-line and 4-line SD mode or SPI mode. Required pull-ups are provided on GPIOs 33-38. **ESP32-S3-EYE** The board is limited to 1-line SD mode. Required pull-ups are provided on GPIOs 38-40... lang:en score:26 filesize: 21.83 M page_count: 2524 document date: 2022-06-14



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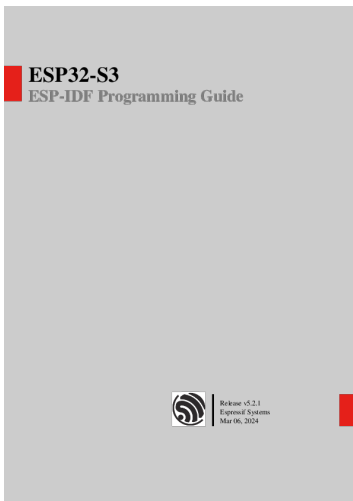
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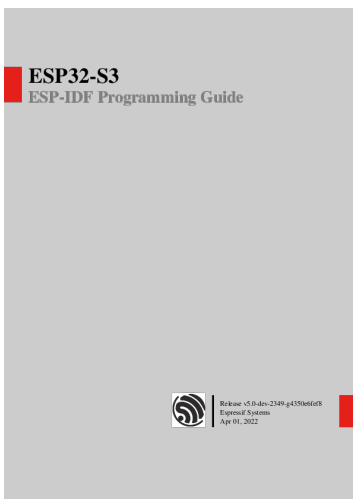
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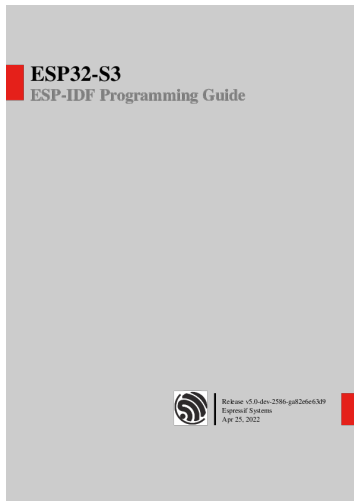
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mode. Required pull-ups are provided on GPIOs 33-38. **ESP32-S3-EYE** The board is limited to 1-line SD mode. Required pull-ups are provided on GPIOs 38-40...

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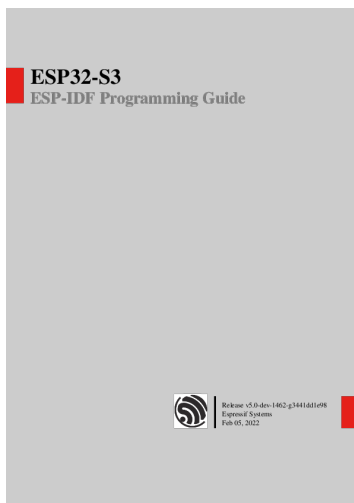


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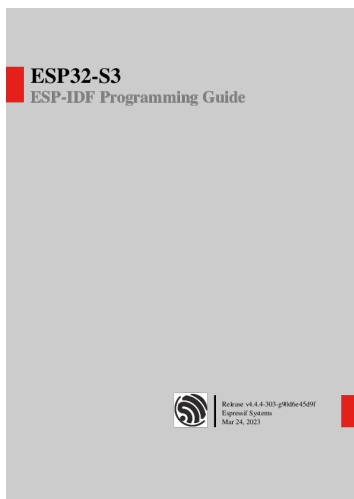


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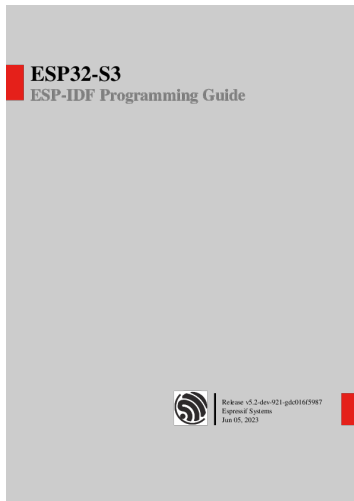


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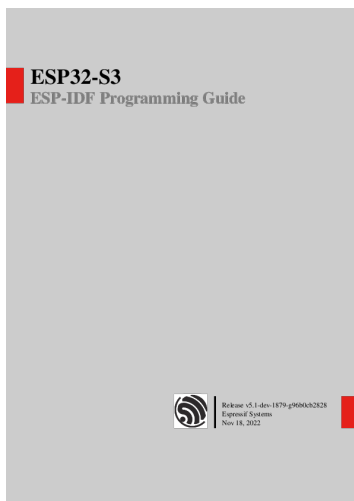


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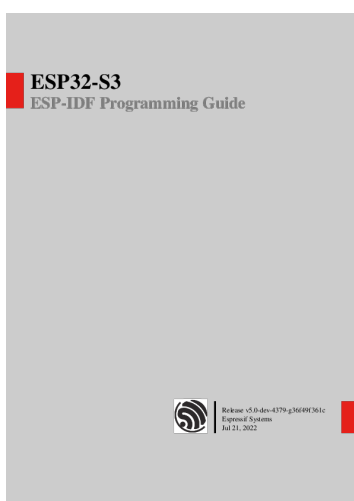


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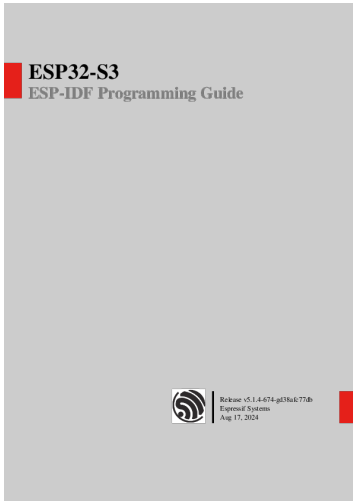


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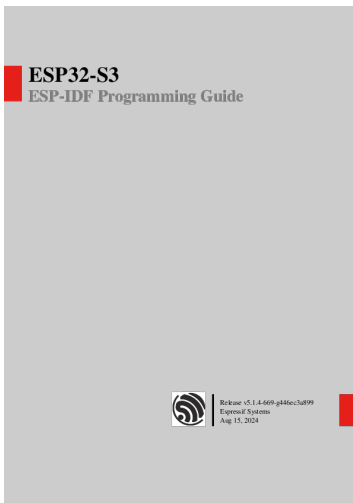
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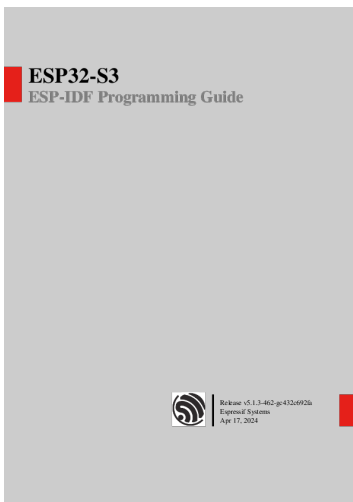
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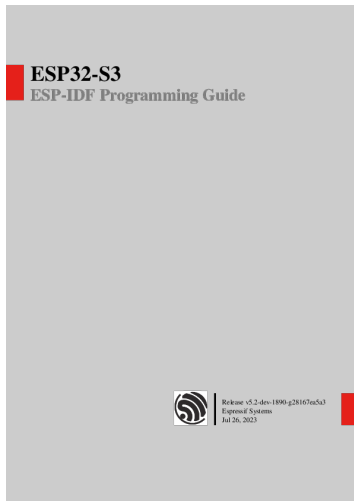
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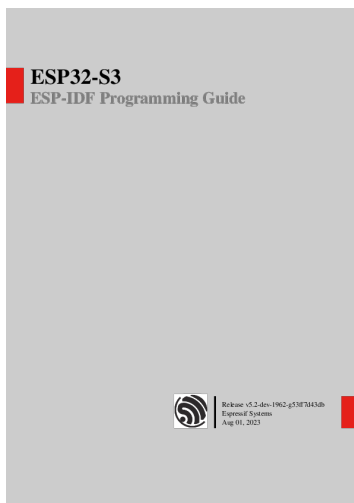


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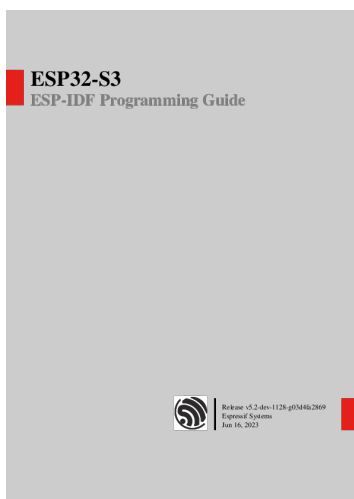


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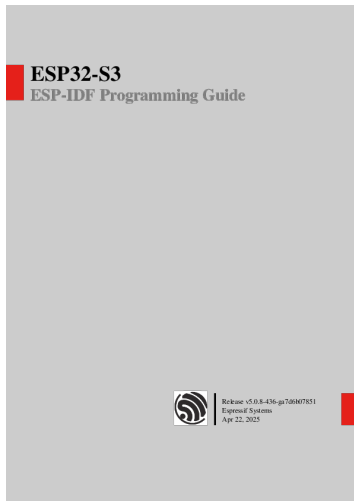


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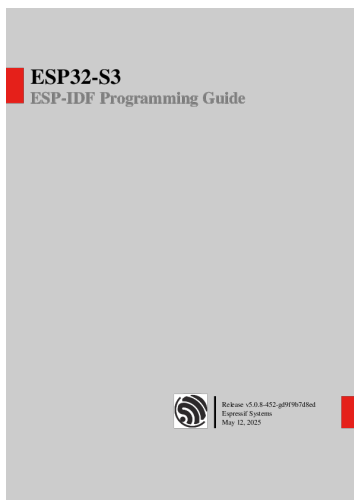


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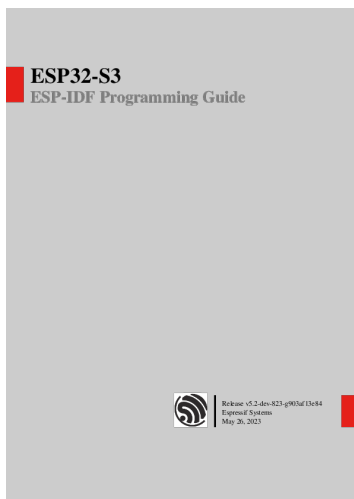


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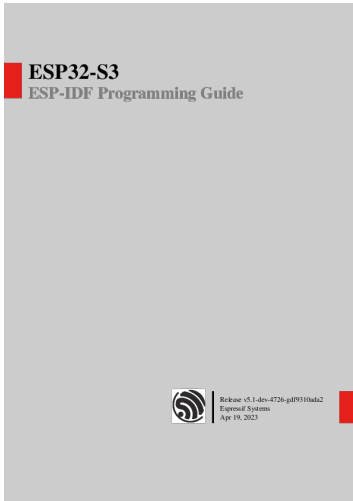


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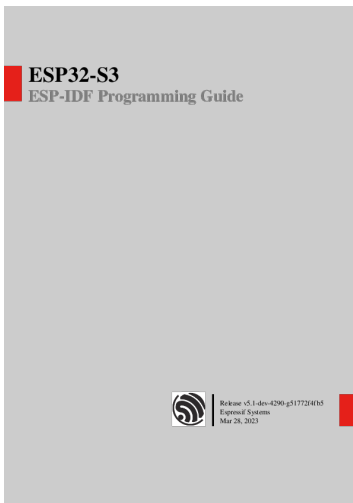


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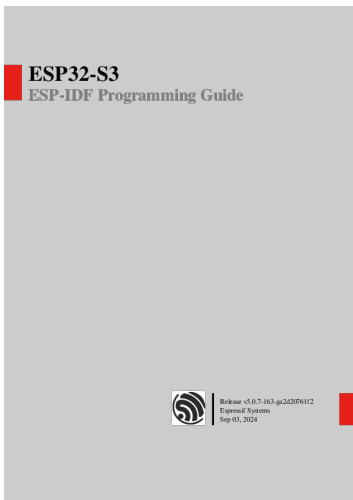


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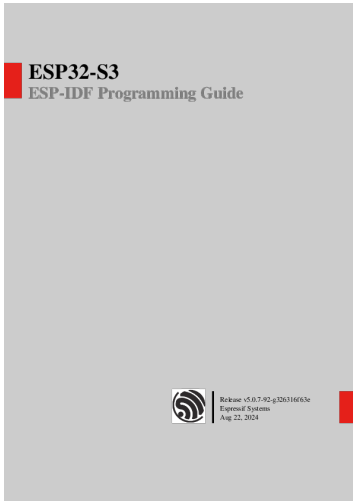


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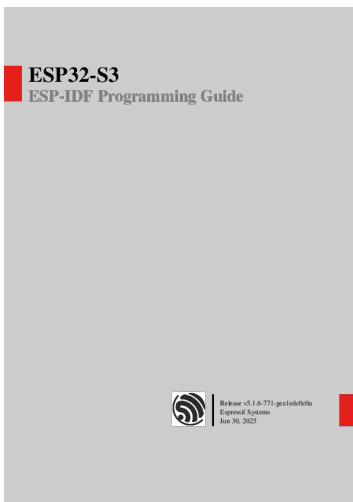
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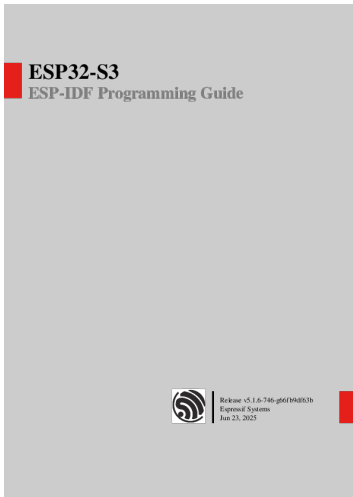
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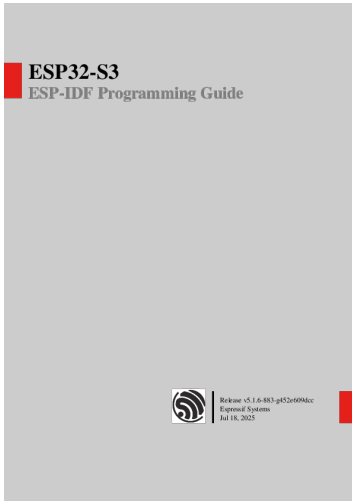
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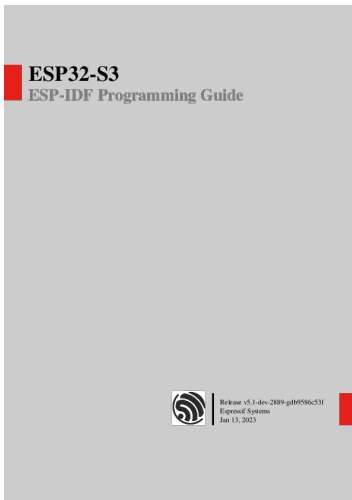
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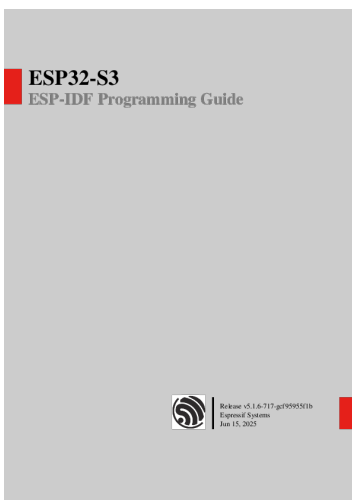
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